

2AZ-FE STARTING

SERVICE DATA

Starter assembly	Standard current: 90 A or less at 11.5 V
Starter magnetic switch assembly	Standard resistance 50 - C: Below 1 Ω 50 - Body: Below 2 Ω
Starter armature assembly	Standard resistance Segment: Below 1 Ω Segment - Coil core: 10 k Ω or higher
	Standard length: 3.1 to 3.8 mm (0.122 to 0.150 in.)
Starter commutator end frame	Standard length: 4.0 to 9.0 mm (0.158 to 0.359 in.)
	Standard resistance Positive (+) - Negative (-): 10 k Ω or higher
Snap ring	Maximum length: 5.0 mm (0.197 in.)
Starter relay	3 - 5: 10 k Ω or higher 3 - 5: Below 1 Ω (when battery voltage is applied to terminals 1 and 2)
Ignition switch	LOCK: Between all terminals 10 k Ω or higher ACC: 2 (AM1) - 3 (ACC) Below 1 Ω ON: 2 (AM1) - 3 (ACC) Below 1 Ω ON: 2 (AM1) - 4 (IG1) Below 1 Ω ON: 6 (IG2) - 7 (AM2) Below 1 Ω START: 1 (ST1) - 2 (AM1) Below 1 Ω START: 1 (ST1) - 4 (IG1) Below 1 Ω START: 6 (IG2) - 7 (AM2) Below 1 Ω START: 6 (IG2) - 8 (ST2) Below 1 Ω

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TORQUE SPECIFICATIONS

Part Tightened	N*m	kgf*cm	ft.*lbf
Lead wire x Terminal C	10	102	7
Starter assembly x Cylinder block sub-assembly	37	377	27
Starter wire x Starter assembly	9.8	100	7
Starter commutator end frame assembly x Starter drive housing assembly	5.9	60	52 in.*lbf
Magnetic switch assembly x Starter drive housing assembly	7.5	76	66 in.*lbf
Battery clamp x Body : for bolt	5.0	51	44 in.*lbf
Battery clamp x Front battery bracket : for nut	5.0	51	44 in.*lbf
Front battery bracket x Body	19	194	14
Battery bracket reinforcement x Battery carrier bracket	19	194	14

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